



## Contents of Volume 102

*Special Issue: A collection of invited papers in honour of Geoffrey T. Barnes*

Preface .....	vii
Förster energy transfer between Langmuir-Blodgett film layers in aqueous solution A. Murphy, F. Grieser, D.Y.C. Chan (Parkville, Vic., Australia), D.N. Furlong and B. Matthews (Clayton, Vic, Australia) .....	1
Bulk aspects of the Gibbs surface excess parameters I.R. Peterson (Paris, France) .....	21
Amplified fluorescence quenching in Langmuir-Blodgett films of 11-(9-carbazolyl)undecanoic acid and palmitic acid T. Nagamura (Hamamatsu, Japan), K. Toyozawa (Fukuoka, Japan) and S. Kamata (Hamamatsu, Japan) .....	31
Fluorescence microscopic studies of spatial structures in Ru(bpy) <sub>3</sub> <sup>2+</sup> monolayers M. Yoneyama (Yokohama, Japan) .....	39
Preparation of HgS in Langmuir-Blodgett films of mercury(II) arachidate and mercury(II) behenate D.J. Elliot, D. N. Furlong, T.R. Gengenbach (Clayton, Vic., Australia) and F. Grieser (Parkville, Vic., Australia) .....	45
Spectroscopic studies on aggregation of squarylium dyes and the photopolymerization of a diacetylenic derivative in monolayers at the air/water interface K. Fukuda and H. Nakahara (Urawa, Japan) .....	57
Area-temperature (A-T) isobars of monolayers of octadecylureas at the air/water interface M. Shimizu, M. Yoshida, K.-i. Iimura, N. Suzuki and T. Kato (Tochigi, Japan) .....	69
Mixed monolayers of poly(vinyl stearate) with its monomer J.B. Peng and G.T. Barnes (Brisbane, Qld., Australia) .....	75
Ion flotation using carboxylate soaps: role of surfactant structure and adsorption behaviour L. Evans, B.P. Thalody, J.D. Morgan (Sydney, N.S.W., Australia), S.K. Nicol (Wallsend, N.S.W., Australia), D.H. Napper and G.G. Warr (Sydney, N.S.W., Australia) .....	81
Non-ionic sugar-based surfactants: self assembly and air/water interfacial activity I. Söderberg (Lund, Sweden), C.J. Drummond, D.N. Furlong, S. Godkin and B. Matthews (Clayton, Vic., Australia) .....	91
Anisotropic crystal growth of the S-layer of <i>Bacillus sphaericus</i> CCM 2177 at the air/water interface D. Pum and U.B. Sleytr (Vienna, Austria) .....	99
UV-induced reactivity of linoleic acid monolayers. The influence of subphase conditions M. Lindén, E. Györfvay, J. Peltonen and J.B. Rosenholm (Turku, Finland) .....	105
Molecular ordering in Langmuir-Blodgett films of triple chained ammonium amphiphiles containing mesogenic moieties M.D. Everaars, A.T.M. Marcelis and E.J.R. Sudhölter (Wageningen, The Netherlands) .....	117
The composition of non-ionic surfactant mixtures at the air/water interface as determined by neutron reflectivity J. Penfold (Didcot, UK), E. Staples, L. Thompson and I. Tucker (Bebington, UK) .....	127
Linear and non-linear optical properties of Z-type Langmuir-Blodgett films of a benzothiazolium dye G.J. Ashwell, T. Handa, G. Jefferies and D. Hamilton (Cranfield, UK) .....	133
The synthesis and surface activity of some alkanediyl bismorpholines J.A. McDonald, S.A. Butler and A.R. Rennie (Cambridge, UK) .....	137
Characterisation of aqueous interfaces with different hydrophobicities by molecular dynamics A.R. van Buuren, S.-J. Marrink and H.J.C. Berendsen (Groningen, The Netherlands) .....	143
Spreading kinetics of dimyristoylphosphatidylcholine liposomes at the air/water interface below and above the main phase-transition temperature I. Panaiotov, Tz. Ivanova, K. Balashev (Sofia, Bulgaria) and J. Proust (Angers, France) .....	159

Three-phase intersection points in monolayers	
J.P. Hagen and H.M. McConnell (Stanford, CA, USA)	167
Isotherm and X-ray diffraction studies of mixed monolayers	
M.K. Durbin, M.C. Shih, A. Malik (Evanston, IL, USA), P. Zschack (Oak Ridge, TN, USA) and P. Dutta (Evanston, IL, USA)	173
XPS film thickness and adsorption studies of alkyltrimethylammonium bromides and organosilanes on silica surfaces	
T.J. Horr, P.S. Arora, J. Ralston and R.St.C. Smart (The Levels, S.A., Australia)	181
Polymer monolayer dynamics by surface light scattering: comparison of long and short side chain polymers	
W. Lee, A.R. Esker and H. Yu (Madison, WI, USA)	191
An investigation of the behaviour of ammonium perfluoro-octanoate at the air/water interface in the absence and presence of salts	
N. Downes, G.A. Ottewill (Portsmouth, UK) and R.H. Ottewill (Bristol, UK)	203
Small angle X-ray scattering from MCM-41 and its synthesis gels: optimisation of the synthesis parameters	
K.J. Edler, J. Dougherty, R. Durand (Canberra, A.C.T., Australia), L. Iton (Argonne, IL, USA), G. Kirton, G. Lockhart, Z. Wang, R. Withers and J.W. White (Canberra, A.C.T., Australia)	213
An investigation of miscibility in monolayer films of phosphocholine-phosphoglycerol binary mixtures	
A.D. Williams, J.M. Wilkin and R.A. Dluhy (Athens, GA, USA)	231
The surface-confined structures of dimyristoylphosphatidylcholine bilayers in contact with the vesicle suspension as studied by means of X-ray reflectivity	
W. Fenzl (Teltow, Germany) L. Sigl, H. Richardsen and G. Cevc (München, Germany)	247
Brewster angle microscopy study of supersaturated monolayers of long chain fatty acid methyl esters before and beyond the collapse pressure	
D. Vollhardt and T. Gutberlet (Berlin, Germany)	257
Announcement	265
Author Index	267
Subject Index	268

